

| Aerosol type    | FIN label           | Description and/or supplier   | Generation method  | Sample provided by | Reference              |
|-----------------|---------------------|---|--|--------------------|------------------------|
| Other           |                     |   |  |                    |                        |
| PSL             | n/a                 | Polystyrene latex spheres (Polysciences, Inc. Warrington, PA), various sizes              | Wet-generated  | MIT                | n/a                    |
| Soot            | CAST minOC or maxOC | CAST soot   | miniCAST flame soot generator (manufactured by Jing Ltd, Zollikofen, Switzerland)  | KIT                | Henning et al. (2012)  |
| SOA             | SOA                 | Secondary organic aerosol   | Ozonolysis of $\alpha$ -pinene   | KIT                | Saathoff et al. (2003) |
| K-feldspar cSA  | FS01cSA or FS04cSA  | Potassium-rich feldspar (as above) coated with sulfuric acid (SA).                        | Small amounts of sulfuric acid were incrementally added to the chamber filled with K-feldspar to achieve thin coatings, as judged from PALMS spectra | KIT                | Saathoff et al. (2003) |
| K-feldspar cSOA | FS04cSOA            | Potassium-rich feldspar (as above) coated with secondary organic aerosol (SOA, as above). | Small amounts of SOA were incrementally added to the chamber filled with K-feldspar to achieve thin coatings, as judged from PALMS spectra           | KIT                | Saathoff et al. (2003) |